

ANNULOPLASTY RINGS FOR REPAIR OF ABNORMAL MITRAL VALVES

Abstract of the Disclosure

A remodeling mitral annuloplasty ring with a reduced anterior-to-posterior dimension to restore coaptation between the mitral leaflets in mitral valve insufficiency (IMVI). The ring has a generally oval shaped body with a major axis perpendicular to a minor axis, both perpendicular to a blood flow axis. An anterior section lies between anteriolateral and posteriomедial trigones, while a posterior section defines the remaining ring body and is divided into **P1**, **P2**, and **P3** segments corresponding to the three scallops of the same nomenclature in the posterior leaflet of the mitral valve. The anterior-to-posterior dimension of the ring body is reduced from conventional rings; such as by providing, in atrial plan view, a pulled-in **P3** segment. Viewed another way, the convexity of the **P3** segment is less pronounced than the convexity of the **P1** segment. In addition, the ring body may have a downwardly deflected portion in the posterior section, preferably within the **P2** and **P3** segments. The downwardly deflected portion may have an apex which is the lowest elevation of the ring body and may be offset with respect to the center of the downwardly deflected portion toward the **P1** segment. A sewing cuff may have an enlarged radial dimension of between 5-10 cm, or only a portion of the sewing cuff may be enlarged.